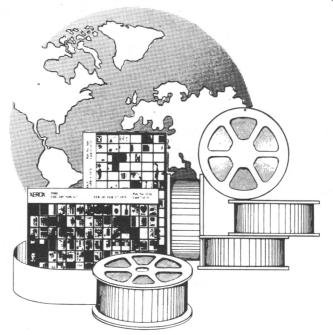
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76003	Vapour pressures and critical points of liquids. VII: halogenated ethanes and ethylenes.	76023 76024	Buckling of struts. Lipped and unlipped channel sections. Vapour pressures and critical points of liquids. IX: C ₂ to C ₁₁ aliphatic
76005 76006	Kinematic and dynamic data for crank-rocker and slider-crank linkages. Vapour pressures and critical points of liquids. VIII: additional	76025	ethers and three aromatic ethers. Vapour pressures and critical points of liquids. $X:C_1$ to C_{18} aliphatic
76007	halogenated ethanes and ethylenes. Fatigue strength of longitudinal fillet weld attachments and joints in steels under axial loading.	76026 76027	amines. Lift and drag due to spoiler operation in the ground run. Introduction to design and performance data for diffusers.
76008	Drag of transverse rows of spherically-headed rivets immersed in a turbulent boundary layer at subsonic and supersonic speeds.	76028	Lift-interference and blockage corrections for two-dimensional subsonic flow in ventilated and closed wind-tunnels.
76009 76010 76011	Thermal conductivity of liquid halogenated aliphatic hydrocarbons. Heat capacity and enthalpy of liquids. II: halogenated methanes. First approximation to take-off field length of multi-engined transport	76029 76030 76031	A guide on the design and selection of dry rubbing bearings. Thermal conductivity of carbon dioxide gas and liquid. Fatigue crack propagation in low and medium strength low alloy steel
76012	aeroplanes. Thermodynamic properties of isopropyl alcohol.	76032	plate, bar and forgings. Fatigue strength of longitudinal welded joints. Symmetrical section I-beams, web to flange welds and T-sections.
76013	Elastic stresses and deflections under uniform pressure of flat rectangular sandwich panels, all edges simply supported (isotropic face plates and orthotropic cores of zero flexural stiffness).	76033 76034	Subsonic base drag of cylindrical bodies with conical boat-tails. Estimation of thrust for take-off performance calculations: turbo-jet and
76014	Estimation of end endurance and construction of constant amplitude SN curves from related data corrected for notch and mean stress effects.	77001	turbo-fan engines. Effect of intake total pressure loss on net thrust at take-off : turbo-jet and turbo-fan engines.
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76017	Thermal conductivity of liquid n-alkyl esters of monobasic n-alkanoic acids.	77004	sandwich panels; all edges clamped (isotropic face plates and orthotropic cores of zero flexural stiffness). Fatique life estimation under variable amplitude loading. (To be used in
76018	The friction component of pressure gradient for two-phase gas or vapour/liquid flow through straight pipes.	77004	conjunction with Item Nos 76014 and 76016.) Fatigue crack propagation in high strength low alloy steel plate, bar and
76019	Estimation of fatigue crack growth rates and residual strength of components using linear elastic fracture mechanics.	77006	forgings. Thermal conductivity of liquid dialkyl ethers.
76020	Estimation of peak values of discrete frequency noise from isolated rotors and propellers.	77007	Heat capacity and enthalpy of liquids. III halogenated ethanes and ethylenes.
76021 76022	Dynamic viscosity of carbon dioxide gas and liquid. Elastic stresses and deflections under uniform pressure of flat rectangular	77008 77009	Pressure losses in curved ducts : single bends. Pressure losses in curved ducts : interaction factors for two bends in series

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AVIONICS

The British Ministry of Defence has chosen the new Decca Doppler 80 system and Automatic Chart Display to be the navigation system for British Army Westland/Aerospatiale Gazelle helicopters.

The contract, which has recently been signed, is worth over £2 million and provides for the equipping of more than 190 aircraft.

A number of overseas governments are showing keen interest in the Doppler 80 system and it is believed that there is consider-

able export potential for it. The basic Decca Doppler 80 system comprises a lightweight **Doppler Radar with Position** Bearing and Distance Indicator (PBDI). The Automatic Chart Display chosen by MOD is an additional system option.

The choice of the new Doppler 80 system follows the success of the Decca Doppler 70 series. Production of the 70 series Doppler now exceeds 1,000 units. The equipment has been

fitted to some 86 different types of fixed and rotary winged air-craft and is used by 45 different

The Doppler 80 system has been designed specifically as a complementary system to the 70 series and will meet the operational requirements of small helicopters where cost, size, ease of installation and light weight are of paramount importance.



A Decca Doppler 80 equipped Westland/Aerospatiale Gazelle helicopter.

